

FIG: 1

**A) Sequence inserted in 3'-UTR of YFP plasmid**

Name	Insert Sequence For siRNA Design	Length
<b>E2-1- (CDC34)</b>	CAAGGGGCTGCAGGAAGAGCCGGTCGAGGGATTCCGCGTGACACTG GTGGACGAGGGCGATCTATACAACTGGGAGGTGGCCATCTTCGGGC CCCCAACACCTACTACGAGGGCGGCTACTTCAAGGCGCGCCTCAA GTTCCCATCGACTACCCATACTCTCCACCAGCCTTTCGGTTCCTGA CCAAGATGTGGCACCCTAACATCTACGAGACGGGGGACGTGTGTATC TCCATCCTCCACCCGCCGGTGGACGACCCCCAGAGCGGGGAGCTGC CCTCAGAGAGGTGGAACCCACGCAGAACGTCAGGACCATTCTCCT GAGTGTGATCTCCCTCCTGAACGAGCCCAACACCTTCTCGCCCGCAA ACGTGGACGCCTCCGTGATGTACAGGAAGTGGAAGAGAGCAAGGG GAAGGATCGGGAGTACACAGACATCATCCGGAAGCAGGTCCTGGGG ACCAAGGTGGACGCGGAGCGTGACGGCGTGAAGGTGCCACCACG CTGGCCGAGTACTGCGTGAAGACCAAGGCGCCGGCGCCCGACGAG GGCTCAGACCTCTTCTACGACGACTACTACGGGACGGCGAGGTGGA GGAGGAGG	607

**B) randomly selected siRNA targeting the 3'-UTR insert**

	ID	Antisense Strand	Sense Strand
CDC34_18	16880	CCGUCCCCGUAGUAGUCGUCgt	GACGACUACUACGGGACGGtt
CDC34_19	16881	CGUCCCGUAGUAGUCGUCGta	CGACGACUACUACGGGACGtt
CDC34_22	16882	CCCGUAGUAGUCGUCGUAGaa	CUACGACGACUACUACGGGtt
CDC34_28	16883	GUAGUCGUCGUAGAAGAGGtc	CCUCUUCUACGACGACUActt
CDC34_29	16884	UAGUCGUCGUAGAAGAGGUct	ACCUCUUCUACGACGACUAtt
CDC34_34	16885	GUCGUAGAAGAGGUCUGAGcc	CUCAGACCUCUUCUACGACTt
CDC34_41	16886	AAGAGGUCUGAGCCCUCGUcg	ACGAGGGCUCAGACCUCUtt
CDC34_42	16887	AGAGGUCUGAGCCCUCGUCgg	GACGAGGGCUCAGACCUCUtt
CDC34_46	16888	GUCUGAGCCCUCGUCGGGCgc	GCCCGACGAGGGCUCAGACTt
CDC34_58	16889	GUCGGGCGCCGGCGCCUUGgt	CAAGGCGCCGGCGCCCGACTt
CDC34_61	16890	GGGCGCCGGCGCCUUGGUCtt	GACCAAGGCGCCGGCGCCctt
CDC34_63	16891	GCGCCGGCGCCUUGGUCUuca	AAGACCAAGGCGCCGGCGCtt
CDC34_72	16892	CCUUGGUCUUCACGCAGUAct	UACUGCGUGAAGACCAAGGtt
CDC34_75	16893	UGGUCUUCACGCAGUACUCgg	GAGUACUGCGUGAAGACCAtt
CDC34_77	16894	GUCUUCACGCAGUACUCGcc	CCGAGUACUGCGUGAAGACTt
CDC34_80	16895	UUCACGCAGUACUCGGCCAgc	UGGCCGAGUACUGCGUGAAtt
CDC34_84	16896	CGCAGUACUCGGCCAGCGUgg	ACGCUGGCCGAGUACUGCGtt
CDC34_85	16897	GCAGUACUCGGCCAGCGUGgt	CACGCUGGCCGAGUACUGCtt
CDC34_90	16898	ACUCGGCCAGCGUGGUGGca	CCCACCACGCUGGCCGAGUtt

	ID	Antisense Strand	Sense Strand
CDC34_99	16899	GCGUGGUGGGCACCUCACgc	GUGAAGGUGCCCACCACGctt
CDC34_121	16900	GUCACGCUCCGCGUCCACctt	GGUGGACGCGGAGCGUGACTt
CDC34_129	16901	CCGCGUCCACCUUGGUCCca	GGGACCAAGGUGGACGCGGtt
CDC34_138	16902	CCUUGGUCCCCAGGACCUGct	CAGGUCCUGGGGACCAAGGtt
CDC34_143	16903	GUGCCCAGGACCUGCUUCCgg	GGAAGCAGGUCCUGGGGACTt
CDC34_153	16904	CCUGCUUCCGGAUGAUGUCtg	GACAUCAUCCGGAAGCAGGtt
CDC34_156	16905	GCUUCCGGAUGAUGUCUGUgt	ACAGACAUCAUCCGGAAGCctt
CDC34_163	16906	GAUGAUGUCUGUGUACUCCcg	GGAGUACACAGACAUCAUCtt
CDC34_172	16907	UGUGUACUCCCGAUCCUUCcc	GAAGGAUCGGGAGUACACAtt
CDC34_173	16908	GUGUACUCCCGAUCCUUCcc	GGAAGGAUCGGGAGUACACtt
CDC34_180	16909	CCCGAUCCUCCCCUUGCuct	AGCAAGGGGAAGGAUCGGGtt
CDC34_181	16910	CCGAUCCUCCCCUUGCUCtc	GAGCAAGGGGAAGGAUCGGtt
CDC34_202	16911	UUUCCACUUCCUGUACAUCac	GAUGUACAGGAAGUGGAAAtt
CDC34_209	16912	UUCCUGUACAUCACGGAGGcg	CCUCCGUGAUGUACAGGAAtt
CDC34_211	16913	CCUGUACAUCACGGAGGCGtc	CGCCUCCGUGAUGUACAGGtt
CDC34_217	16914	CAUCACGGAGGCGUCCACGtt	CGUGGACGCCUCCGUGAUGtt
CDC34_219	16915	UCACGGAGGCGUCCACGUUtg	AACGUGGACGCCUCCGUGAtt
CDC34_240	16916	CGGGCGAGAAGGUGUUGGGct	CCCAACACCUUCUCGCCCGtt
CDC34_253	16917	GUUGGGCUCGUUCAGGAGGga	CCUCCUGAACGAGCCCAACTt
CDC34_260	16918	UCGUUCAGGAGGGAGAUCa	UGAUCUCUCCUCCUGAACGAtt
CDC34_262	16919	GUUCAGGAGGGAGAUCACAct	UGUGAUCUCCUCCUGAACtt
CDC34_267	16920	GGAGGGAGAUCACACUCAGga	CUGAGUGUGAUCUCCUCCtt
CDC34_268	16921	GAGGGAGAUCACACUCAGGag	CCUGAGUGUGAUCUCCUCCtt
CDC34_270	16922	GGGAGAUCACACUCAGGAGaa	CUCCUGAGUGUGAUCUCCtt
CDC34_276	16923	UCACACUCAGGAGAAUGGUcc	ACCAUUCUCCUGAGUGUGAtt
CDC34_277	16924	CACACUCAGGAGAAUGGUcct	GACCAUUCUCCUGAGUGUGtt
CDC34_283	16925	CAGGAGAAUGGUCCUGACGtt	CGUCAGGACCAUUCUCCUGtt
CDC34_284	16926	AGGAGAAUGGUCCUGACGUtc	ACGUCAGGACCAUUCUCCUtt
CDC34_296	16927	CUGACGUUCUGCGUGGGGUtc	ACCCACGCGAGAACGUCAGtt
CDC34_303	16928	UCUGCGUGGGGUUCCACCUct	AGGUGGAACCCACGCAGAtt
CDC34_316	16929	CCACCUCUCUGAGGGCAGCtc	GCUGCCCUACAGAGAGGUGtt
CDC34_318	16930	ACCUCUCUGAGGGCAGCUCcc	GAGCUGCCCUACAGAGAGGUtt
CDC34_325	16931	UGAGGGCAGCUCCCCGCUCtg	GAGCGGGGAGCUGCCCUCAtt
CDC34_326	16932	GAGGGCAGCUCCCCGCUCUgg	AGAGCGGGGAGCUGCCCUctt
CDC34_327	16933	AGGGCAGCUCCCCGCUCUGgg	CAGAGCGGGGAGCUGCCCUtt
CDC34_328	16934	GGGCAGCUCCCCGCUCUGGgg	CCAGAGCGGGGAGCUGCCCUtt
CDC34_348	16935	GGUCGUCCACCGGCGGGUGga	CACCCGCCGGUGGACGACctt
CDC34_349	16936	GUCGUCCACCGGCGGGUGGag	CCACCCGCCGGUGGACGACTt

	ID	Antisense Strand	Sense Strand
CDC34_396	16937	CGUAGAUGUUAGGGUGCCAca	UGGCACCCUAACAUCUACGtt
CDC34_402	16938	UGUUAGGGUGCCACAUCUu	AAGAUGUGGCACCCUAACAtt
CDC34_441	16939	GUGGAGAGUAUGGGUAGUCga	GACUACCCAUACUCUCCACtt
CDC34_448	16940	GUAUGGGUAGUCGAUGGGGaa	CCCCAUCGACUACCCAUACtt
CDC34_454	16941	GUAGUCGAUGGGGAACUUGag	CAAGUCCCCCAUCGACUACtt
CDC34_460	16942	GAUGGGGAACUUGAGGCGCgc	GCGCCUCAAGUUCCCCAUUct
CDC34_461	16943	AUGGGGAACUUGAGGCGCGcc	CGCGCCUCAAGUUCCCCAUtt
CDC34_468	16944	ACUUGAGGCGCGCCUUGAAgt	UUCAAGGCGCGCCUCAAGUtt
CDC34_478	16945	CGCCUUGAAGUAGCCGCCtc	GGGCGGCUACUUAAGGCGtt
CDC34_482	16946	UUGAAGUAGCCGCCUCGUag	ACGAGGGCGGCUACUUAAtt
CDC34_484	16947	GAAGUAGCCGCCUCGUAGta	CUACGAGGGCGGCUACUUCtt
CDC34_485	16948	AAGUAGCCGCCUCGUAGUag	ACUACGAGGGCGGCUACUUt
CDC34_531	16949	CCUCCCAGUUGUAUAGAUCgc	GAUCUAUACAACUGGGAGGtt
CDC34_533	16950	UCCCAGUUGUAUAGAUCGccc	GCGAUCUAUACAACUGGGAtt
CDC34_538	16951	GUUGUAUAGAUCGCCUCGtc	CGAGGGCGAUCUAUACAAct
CDC34_540	16952	UGUAUAGAUCGCCUCGUCca	GACGAGGGCGAUCUAUACAtt
CDC34_542	16953	UAUAGAUCGCCUCGUCCAcc	UGGACGAGGGCGAUCUAUAAtt
CDC34_548	16954	UCGCCCUCGUCCACCAGUGtc	CACUGGUGGACGAGGGCGAtt
CDC34_555	16955	CGUCCACCAGUGUCACGCGga	CGCGUGACACUGGUGGACGtt
CDC34_569	16956	ACGCGGAUCCUCGACCGgc	CGGUCGAGGGGAUCCGCGUtt
CDC34_578	16957	CCCUCGACCGGCUCUCCUgc	AGGAAGAGCCGGUCGAGGGtt
CDC34_586	16958	CGGCUCUCCUGCAGCCCct	GGGGCUGCAGGAAGAGCCGtt

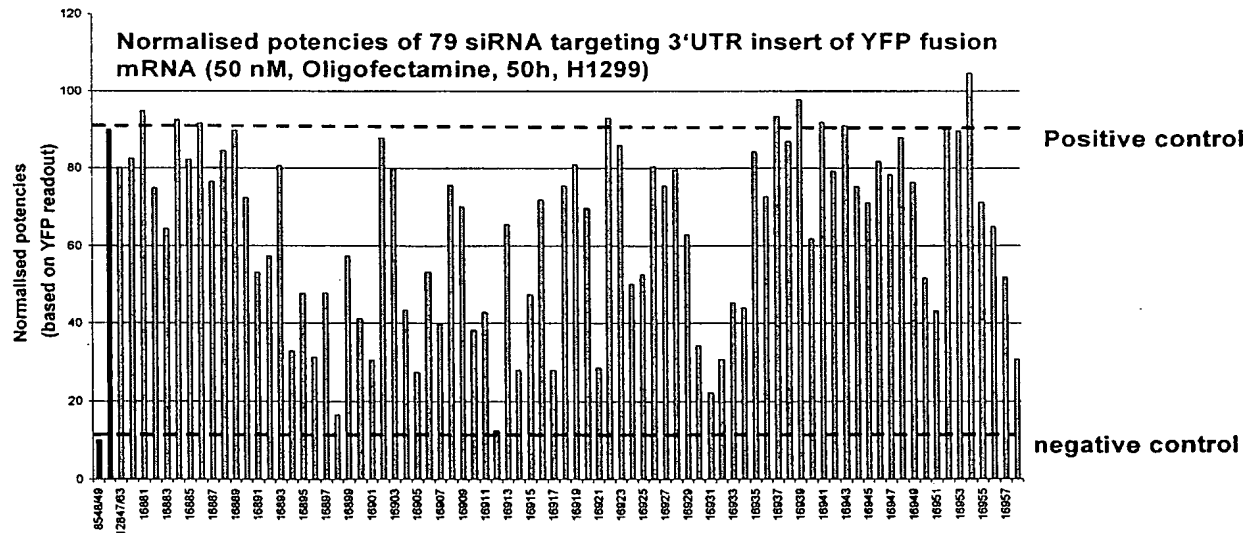


FIG: 2

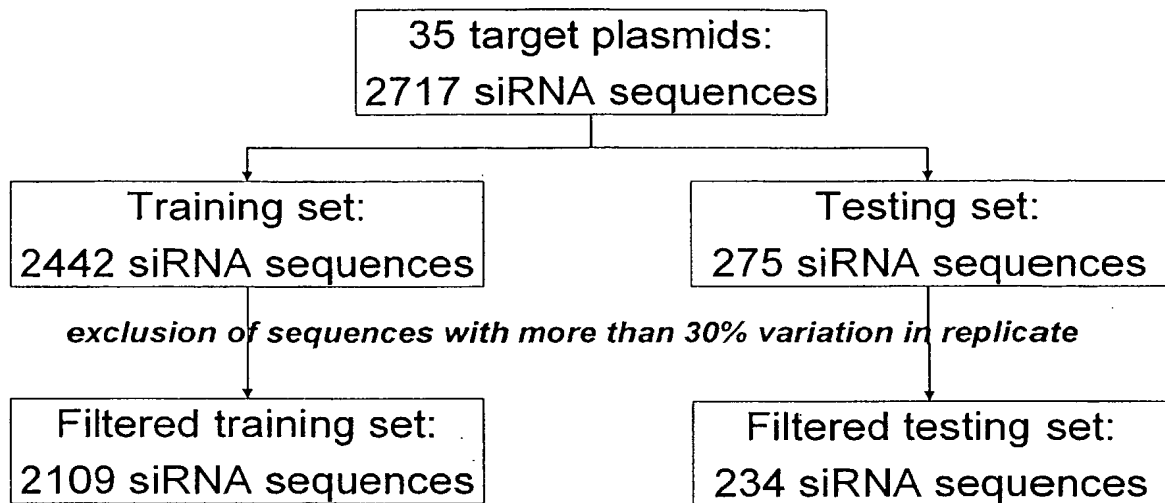


FIG: 3

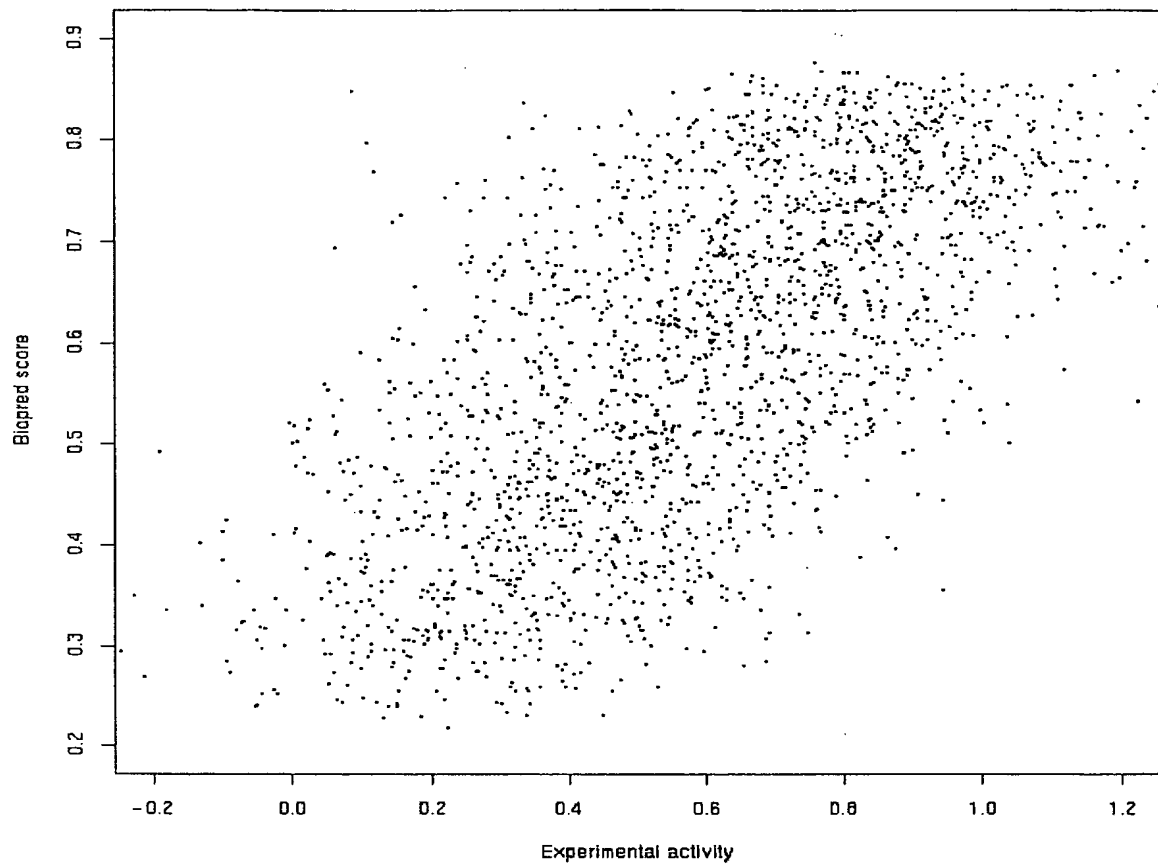


FIG: 4

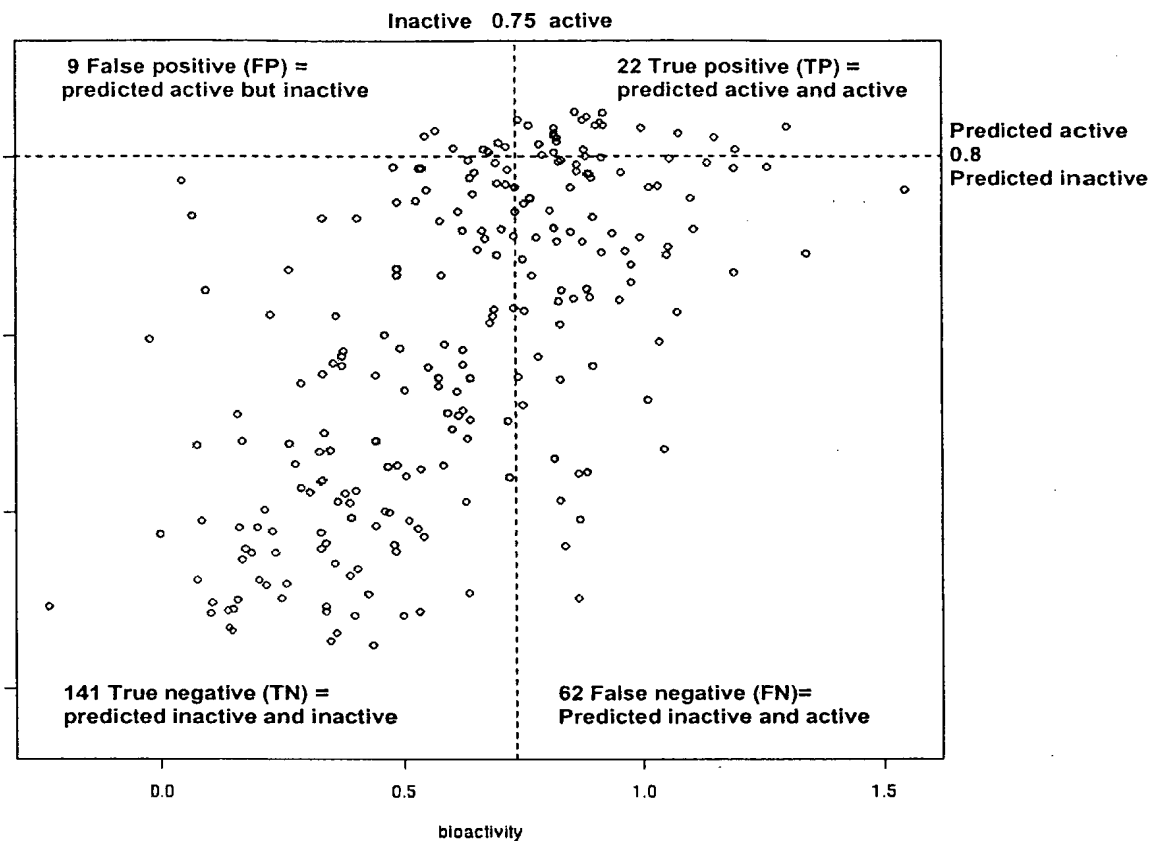


FIG: 5

